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### NEW ACALYPTRATE DIPTERA FROM NORTH AMERICA.

By D. W. COQUILLET.

Family MICROPEZIDÆ.

**Micropeza bisetosa**, sp. nov.

Black, the lower side of the third antennal joint, upper part of the face, the cheeks, mouth parts, lower part of occiput, posterior margin of each abdominal segment, greater part of male hypopygium, stems of halteres, coxæ and bases of femora, yellow; mesonotum gray pruinose, marked with four brownish vittæ, two posthumeral bristles each side; wings hyaline, unmarked. Length, 5 mm.

*Habitat.* — Prescott, Arizona (June 6), and Las Vegas Hot Springs, New Mexico (August 9).

A specimen of each sex collected by Mr. H. S. Barber. Type No. 6626, U. S. N. M.

Family SAPROMYZIDÆ.

**Sapromyza glauca**, sp. nov.

Black, the antennæ, a transverse streak above them, the palpi, halteres, abdomen except the first segment and spot on each side of the others, the bases and a broad ring at middle of tibiæ, and broad bases of the middle and hind tarsi, yellow; head, thorax and scutellum bluish-gray pruinose, a black spot on each side of antennæ, third joint of antennæ less than twice as long as wide, arista rather long-plumose, face slightly concave; four pairs of dorsocentral bristles, the bristly hairs between them arranged in four rows, two sternopleural bristles; wings tinged with yellow. Length, 3 mm.

*Habitat.* — Marlboro, Maryland.

A single specimen, collected May 13, by Mr. H. S. Barber. Type No. 6627, U. S. N. M.

**Sapromyza vittigera**, sp. nov.

Black, the narrow base of the third antennal joint, mouth parts, halteres, venter, bases and a median ring on tibiae, and bases of tarsi, yellow, dorsum of abdomen dark brown and somewhat polished; head gray pruinose, front with a median brown vitta, face strongly concave, a small round brown spot on each side of the center, third joint of antennæ only slightly longer than wide, arista pubescent, thorax and scutellum gray pruinose, mesonotum marked with three brown vittæ, three pairs of dorsocentral bristles, the anterior pair located in front of the transverse furrow, the bristly hairs between the dorsocentral rows arranged in two rows, two sternopleural bristles; wings hyaline. Length, 2.5 mm.

*Habitat*.—Georgia.

Two specimens collected by H. K. Morrison. Type No. 6628, U. S. N. M.

**Sapromyza puncticeps**, sp. nov.

Yellow, a small, rounded, velvet-black spot at middle of lower edge of face, and a small black ocellar spot; face slightly concave, third joint of antennæ slightly longer than wide, arista black, pubescent; mesonotum somewhat opaque, thinly gray pruinose, three pairs of dorsocentral bristles, all of them postsutural, the bristly hairs between the two rows arranged in four rows, two sternopleural bristles; wings hyaline. Length, 2.5 mm.

*Habitat*.—Mt. Washington, New Hampshire.

Three specimens collected by Mrs. Annie T. Slosson. Type No. 6629, U. S. N. M.

**Lauxania variceps**, sp. nov.

Black, the lower part of the front and four vittæ extending from it nearly to the vertex, a streak extending from each antenna to lower hind corner of the corresponding cheek, the bases of the antennæ, the halteres, knees and middle and hind tarsi, yellow; head polished, center of face gibbous, third antennal joint less than twice as long as wide, arista bare, body polished, mesonotum somewhat opaque, thinly gray pruinose, four pairs of dorsocentral bristles, the anterior pair sometimes small, located in front of the suture, the hairs between them not in rows, two sternopleural bristles; wings hyaline. Length, 2.5 to 3 mm.

*Habitat*.—Williams, Arizona.

Six specimens collected June 7 and 8 by Mr. H. S. Barber. Type No. 6630, U. S. N. M.

**Lauxania longicornis**, sp. nov.

Black, the lower edge of the front above the antennæ, extending as four vittæ to the vertex, an oblique streak on each side of the face, bases of antennæ, the palpi, halteres, apices of femora, the tibiae and tarsi except apices of front tarsi from four fifths length of first joint, yellow, front tibiae partly brownish-yellow; head polished, third joint of antennæ slender, over three times as long as greatest width, almost

reaching the mouth, arista bare, face gibbous; body polished, three pairs of dorso-central bristles, all of them postsutural, the hairs between them not in rows, two sternopleural bristles; wings hyaline. Length, 2.5 to 3.3 mm.

*Habitat*.—Williams (June 7, H. S. Barber), and Oracle (June 30, Hubbard and Schwarz), Arizona; and Mesilla Park, New Mexico (April 28, T. D. A. Cockerell).

Four specimens. Type No. 6631, U. S. N. M.

***Lauxania nigrimana*, sp. nov.**

Black, lower edge of front above antennæ, upper edge of face below antennæ, prolonged obliquely to lower front corner of cheeks, posterior half of cheeks, bases of antennæ, the halteres and legs except apices of front femora and whole of their tibiæ and tarsi, yellow, antennal arista white, pubescent; head polished, a large spot below ocelli and the yellow portion of face and cheeks whitish pruinose; face gibbous, third joint of antennæ slender, over four times as long as its greatest width; body polished, the mesonotum and scutellum except the sides of the former opaque, gray pruinose, sternum whitish pruinose, three pairs of dorsocentral bristles, all of them postsutural, the bristly hairs between the two rows arranged in four rows, two sternopleural bristles; wings yellowish hyaline. Length, 4 mm.

*Habitat*.—Williams, Arizona.

Two specimens collected July 23 and 26 by Mr. H. S. Barber. Type No. 6632, U. S. N. M.

***Lauxania cineracea*, sp. nov.**

Black, the base and under side of the antennæ, the halteres and bases of middle and hind tibiæ and of their tarsi yellow; head opaque, grayish pruinose, middle of front marked with a pair of blackish vittæ, center of face only slightly swollen, third joint of antennæ slightly over twice as long as wide, arista rather long-plumose; thorax opaque, gray pruinose, lateral margins of mesonotum brownish, the bristles and hairs situated on brown dots, only two pairs of dorsocentral bristles, the bristly hairs between them arranged in four rows, one sternopleural bristle, upper side of scutellum opaque, gray pruinose, the lower side somewhat polished, abdomen polished and having a brassy tinge; wings yellowish hyaline. Length, 3.5 mm.

*Habitat*.—Biscayne Bay, Florida.

A single specimen collected by Mrs. Annie T. Slosson. Type No. 6633, U. S. N. M.

***Lauxania lutea*, sp. nov.**

Reddish-yellow, the legs and abdomen light yellow, the latter with a rounded black spot in middle of base of segments three to six; head polished, face rather strongly convex, front noticeably wider than either eye, ocellar bristles obsolete, third joint of antennæ nearly twice as long as broad, arista brown, rather long-plumose; thorax highly polished, two pairs of dorsocentral bristles, the hairs between them not arranged in rows, two sternopleural bristles; wings strongly tinged with yellow, penul-

time section of fourth vein scarcely more than half as long as the last section. Length, 3.5 mm.

*Habitat*.—Lake Worth and Biscayne Bay, Florida.

Two specimens collected by Mrs. Annie T. Slosson. Type No. 6634, U. S. N. M.

Family TRYPETIDÆ.

***Trypeta varipennis*, sp. nov.**

Yellow, a pair of black spots on upper edge of metanotum, a black spot in front of each haltere, a transverse row of four round black spots on the first four abdominal segments, a pair of spots at base and the narrow apex of the ovipositor, black; head and mesonotum subopaque, the posterior part of the latter, the scutellum, metanotum, pleura and abdomen highly polished; bristles black, hairs of abdomen also black; third antennal joint tapering towards the apex, which is rounded; one pair of dorso-central and one of acrostichal bristles, scutellum bearing four bristles; ovipositor as long as the penultimate abdominal segment; wings hyaline, costal margin to tip of fourth vein bright yellow, changing into brown at apex of wing and marked with three rounded brown spots, one at humeral crossvein, another at apex of auxiliary vein, the third just beyond apex of first vein; anal cell yellow, a large brown cloud at its apex; a yellow crossband begins at the costal margin just beyond apex of first vein, and passes over small crossvein and reaches the fifth vein below which it changes to brown and extends nearly to the margin of the wing; above the small crossvein this band contains a small brown spot, and in the discal cell it is considerably expanded toward the base of this cell; hind crossvein bordered with brown and on the inner side with yellow, which color is prolonged almost across the first posterior cell. Length, 3.5 mm.

*Habitat*.—Bright Angel Hotel, brink of Grand Canyon, Coconino Co., Arizona.

A female specimen collected July 10 by Mr. H. S. Barber. Type No. 6635, U. S. N. M.

***Euaresta stigmatica*, sp. nov.**

Yellow, the occiput except the upper and lower edges, the thorax and base of scutellum, black, opaque, densely gray pruinose, apex of abdomen of male black; hairs and bristles yellowish, arista except at base brown, proboscis robust, not geniculate, two pairs of dorso-central bristles, no acrostichals, scutellum bearing four bristles, the apical pair small, ovipositor of female slightly longer than the last two segments of abdomen; wings practically as in *bella* Loew,\* except that the stigma is yellowish gray, with a small median brown spot. Length, 3.5-4 mm.

*Habitat*.—Flagstaff (July 6) and Williams (June 27 and 30), Arizona.

One male and three females collected by Mr. H. S. Barber. Type No. 6636, U. S. N. M.

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\* Monographs Diptera North America, III, Pl. X, Fig. 23.

**Tephritis gemella**, sp. nov.

Yellow, a black spot at the lower front corners of the scutellum, hairs and bristles also yellow, scutellum bearing four bristles; wings reticulate with yellowish-brown, along the costa and at apex with blackish, nearly as in *aqualis* Loew,\* except that there are two transverse pairs of hyaline dots on each side of the small crossvein, situated between the latter and the large round hyaline spots; the basal portion of the discal cell as far as the transverse pair of hyaline dots below the small crossveins contains four large hyaline spots; bristles of third vein very sparse and minute; most of the cells contain a few more hyaline dots than occur in the related species. Length, 6 mm.

*Habitat*.—Las Vegas Hot Springs, New Mexico.

A female specimen collected August 8 by Mr. H. S. Barber. Type No. 6637, U. S. N. M.

**Tephritis inornata**, sp. nov.

Black, opaque, grayish pruinose, the head and its appendages except center of occiput, the apex of scutellum, the halteres and legs yellow, ovipositor of female largely reddish-yellow; bristles black, the bristly hairs whitish, scutellum bearing four bristles, third joint of antennæ rounded at the apex, proboscis short, rather robust, not geniculate, abdomen without distinct black spots; wings reticulate with dark brown nearly as in *finalis* Loew,† except that the first posterior cell contains a transverse pair of hyaline dots just beyond the hyaline basal spot, and with five hyaline dots beyond this pair, three of which are along the fourth vein and two along the third, also a minute hyaline dot in extreme apex of this cell; apex of discal cell beyond the transverse pair of hyaline dots below and slightly beyond the small crossvein wholly brown; hyaline spots in third posterior cell except the one in extreme apex united to form three large spots; third vein bare. Length, 3 mm.

*Habitat*.—Las Vegas Hot Springs, New Mexico.

One male and two female specimens collected August 2 to 8 by Mr. H. S. Barber. Type No. 6638, U. S. N. M.

**Urellia imperfecta**, sp. nov.

Black, opaque, gray pruinose, the head and its members except center of occiput, the humeri, halteres and legs yellow, bristles black, the bristly hairs yellowish; third joint of antennæ rounded at the apex, proboscis short, rather robust, not geniculate, scutellum bearing only two bristles, abdomen unmarked, middle femora without bristles; wings nearly as in *maverna* Walker (*solaris* Loew‡) except that the brown, Y-shaped mark at apex of wing is wanting except a dot where the base of the branches should be, no gray dot near center of discal cell, a brown streak below middle of penultimate section of fifth vein, the hyaline spot in base of first posterior cell much larger, and there is a hyaline dot close to the third vein in the brown

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\* Monographs Diptera North America, III, Pl. X, Fig. 20.

† Monographs Diptera North America, III, Pl. XI, Fig. 4.

‡ Monographs Diptera North America, III, Pl. X, Fig. 19.

beyond it, the latter does not extend to the second of the two brown crossbands in the second posterior cell. Length, 2.5 mm.

*Habitat*.—Williams, Arizona.

A male specimen collected May 28 by Mr. H. S. Barber. Type No. 6639, U. S. N. M.

Family EPHYDRIDÆ.

***Dichæta furcata*, sp. nov.**

Black, the base of third antennal joint, palpi, apex of proboscis, halteres, knees and tarsi except their apices, yellow; head opaque, gray pruinose, the front and face yellowish-gray, the front marked with two black vittæ which converge anteriorly, only one pair of fronto-orbital bristles and nearer to each eye a row of short bristly hairs, several similar hairs on lower part of front, sides of the face and cheeks bearing a row of from seven to nine bristles, and between each row and the adjacent eye is a series of short, bristly hairs; mesonotum yellowish-gray pruinose, three indistinct brown vittæ, pleura bluish-gray pruinose, a brown spot near center of mesopleura, scutellum with a transverse pair of yellowish-gray pruinose spots; abdomen bluish-gray pruinose, segments 2 to 5 in the female, 2 to 4 in the male, each marked with a basal pair of large, subtriangular black spots, in the male the fifth segment is gray pruinose except a median black vitta, and near the apex of its upper side is a slender tubercle which is nearly twice as long as this segment and tipped with a pair of upwardly curving spines, each about two-thirds as long as the tubercle; fourth segment in the male bearing a transverse row of unusually large bristles near its posterior margin; wings yellowish hyaline. Length, 3 to 4 mm.

*Habitat*.—Biscayne Bay and Lake Worth, Florida.

Three males and two females collected by Mrs. Annie T. Slosson. Type No. 6640, U. S. N. M.

***Paralimna nuda*, sp. nov.**

Black, the third antennal joint, halteres, knees, tibiæ and bases of tarsi yellow; front and face yellow, the occiput gray pruinose, only one pair of orbital bristles; thorax grayish pruinose, mesonotum with a broad median and pair of narrow lateral vittæ, no bristly hairs between the rows of dorsocentral bristles, nor on the sternopleura, no sternopleural bristle, scutellum brown pruinose on the upper side, abdomen bluish-gray pruinose, segments 2 to 5 subequal in length; tibiæ silvery white pruinose, the middle ones each bearing a long bristle near the base and another near the apex; wings whitish hyaline. Length, 2 mm.

*Habitat*.—Frontero, Tabasco, Mexico.

A male specimen collected on moist sand along a river, March 9 by Mr. C. H. T. Townsend. Type No. 6641, U. S. N. M.

***Discocerina incisa*, sp. nov.**

Black, the lower edge of the front, antennæ, palpi, halteres, front coxæ, knees tibiæ and tarsi except the last two joints, yellow; front brownish, face yellowish pruinose, orbits of both and the cheeks white pruinose, face bearing three pairs of

bristles, a bristle at lower posterior corner of each cheek; mesonotum and scutellum olive gray, pleura whitish-gray pruinose; abdomen brownish black pruinose, the last segment and front angles of the two preceding segments whitish pruinose, on the penultimate segment reaching at least nearly halfway to the middle of the dorsum; wings hyaline, apex of second vein slightly beyond the middle between apices of the first and third veins. Length, 1.5 mm.

*Habitat*.—Vieques Island, Fajardo, Mayaguez, Aguadillo, Utuado and Arroyo, Porto Rico.

Eight specimens collected in January and February, 1889, by Mr. August Busck. Type No. 6642, U. S. N. M.

### **Parephydra**, gen. nov.

Near *Discocerina*, but the ocellar bristles are inserted higher than the lowest ocellus, the oral opening is unusually large, etc. Head with a deep concavity at base of antennæ, face with a low, median carina on the upper part, the remainder convex, at the oral margin projecting farther forward than at any other part, oral margin bare, clypeus hidden, front nearly flat, two pairs of vertical bristles, no postverticals, two pairs of fronto-orbitals, second joint of antennæ bearing two short bristles at the upper inner angle, third joint suborbicular, arista long-pectinate on the upper side, legs without bristles, venation as in the related genus.

Type, the following species:

### **Parephydra humilis**, sp. nov.

Black, the base of third antennal joint, the halteres and tarsi except their apices, yellow; front yellowish, the face light gray pruinose, face bearing three pairs of bristles and one near lower posterior corner of each cheek; body opaque, gray pruinose, whitish on the abdomen, mesonotum except the sides brownish, one pair of acrostichal bristles and one of dorsocentrals, the bristly hairs short, sparse, not arranged in rows, two posthumeral bristles, two mesopleural and one sternopleural, pleura otherwise almost bare, scutellum bearing four bristles; abdomen oval, composed of five segments which increase in length toward the apex; wings hyaline, hind crossvein faintly clouded with brown, apex of second vein slightly beyond the middle of distance between apices of first and third veins. Length, nearly 1 mm.

*Habitat*.—Hot Springs, Yavapai Co., Arizona.

A single specimen collected June 26 by Mr. H. S. Barber. Type No. 6643, U. S. N. M.

### **Cœnia bisetosa**, sp. nov.

Head and its members black, middle of front bronze green, not pruinose, sparsely covered with short hairs but without long bristles, two pairs of orbital bristles, third joint of antennæ without a long hair, arista rather long-pectinate on the upper side, face and cheeks opaque, light gray pruinose; thorax blackish, opaque, yellowish-gray pruinose, apparently five pairs of dorsocentral bristles, no acrostichals, scutellum bluish, not pruinose, bearing two pairs of bristles, abdomen olive green, broad bases of the last three segments violet bronze, segments two to five slightly increasing in



length, the fifth scarcely longer than the fourth; femora olive green, the front ones and anterior side of the others opaque, olive green pruinose, posterior side of the latter polished, tibiae and tarsi black, front tarsi not thickened, claws strongly arcuate; wings grayish hyaline, marginal cell dark gray, small crossvein noticeably before middle of discal cell; halteres yellow. Length, 4 mm.

*Habitat*.—Salt Lake, Utah.

A male specimen collected June 25 by Mr. E. A. Schwarz. Type No. 6644, U. S. N. M.

***Ephydra pilicornis*, sp. nov.**

Dark bluish-green, antennae, mouth parts, tibiae and tarsi black, the halteres and front knees yellow; three pairs of fronto-orbital bristles, on the inner side of each row is a gray pruinose vitta connected with a similar one on lower edge of front, disc of front without long bristles, face on lower half and along the eyes yellowish-gray pruinose, third joint of antennae bearing a long bristly hair on the outer side, arista dark brown, short-pectinate on upper side of basal half; mesonotum and scutellum somewhat polished, the front end and sides of the former and the pleura yellowish-gray pruinose, five pairs of dorsocentral bristles, no acrostichals, scutellum bearing two pairs, abdomen slightly polished, segments two to four of nearly an equal length, the fifth almost twice as long as the fourth; wings grayish hyaline. Length, 3.5 mm.

*Habitat*.—Biscayne Bay, Florida.

A male specimen collected by Mrs. Annie T. Slosson. Type No. 6645, U. S. N. M.

***Scatella trisetata*, sp. nov.**

Olive green, the antennae and tarsi black, the halteres yellow; front yellowish-gray pruinose, somewhat polished each side of the middle, no long bristles on the disc, three pairs of fronto-orbital bristles, face whitish-gray pruinose, a brownish-pruinose vitta in middle of upper half, arista rather long pubescent on the upper side; mesonotum and scutellum opaque, brown pruinose, three pairs of dorsocentral bristles, the anterior pair in front of the suture, no acrostichal bristles, the bristly hairs between the dorsocentral rows arranged in two rows, humeri and pleura olive gray pruinose, on upper portion of the latter partly brown, scutellum bearing four bristles, abdomen opaque, olive gray pruinose, an indistinct brownish fascia at bases of the segments, fifth segment in the male nearly twice as long as the fourth; wings hyaline, marked with four indistinct white dots, of which one is in the submarginal cell above the hind crossvein, one near base and another beyond center of first posterior cell, the remaining dot near apex of discal cell, costal vein reaches apex of fourth vein. Length, 3 mm.

*Habitat*.—Williams, Arizona.

One male and four females collected June 6 by Mr. H. S. Barber. Type No. 6646, U. S. N. M.

## Family AGROMYZIDÆ.

**Acrometopia punctata**, sp. nov.

Black, the base of antennæ, mouth parts, halteres, knees and middle and hind tarsi except their apices, yellow, antennal arista white, the base yellow; third joint of antennæ three times as long as wide, bluntly rounded at the apex; head, body and legs except the tarsi, opaque, densely gray pruinose, the broad frontal vitta brownish, abdomen rather thickly covered with black dots; wings whitish hyaline, basal half containing about five brown dots, one before and another beyond apex of first vein, one on small crossvein and two near the wing margin in the third posterior cell; a brown fascia crosses the wing, passing over the hind crossvein and inclosing a hyaline drop at the costal end; between this fascia and the wing tip are three brown fasciæ, each inclosing a hyaline dot in the costal end (these fasciæ are regular in one wing but very irregular in the other), where there is a partial fourth fascia. Length, 2.5 mm.

*Habitat*.—Georgia.

A female specimen collected by H. K. Morrison. Type No. 6647, U. S. N. M.

This European genus has not heretofore been reported from North America; it will be readily recognized by the nearly horizontal front, face and eyes.

**Acrometopia maculata**, sp. nov.

Black, the antennæ except at apex, the mouth parts, halteres, knees, tibiae and tarsi yellow, base of antennal arista yellow, the remainder white; third joint of antennæ less than twice as long as wide, the outer apical angle almost rectangular; head, body and femora opaque, densely gray pruinose, segments 2 to 5 of abdomen each marked with a basal pair of round black spots; wings hyaline, marked with brown as follows: A cloud on humeral crossvein, dot near center and another in apex of costal cell, four spots in marginal cell, of which the first three are geminate, submarginal cell crossed by eight streaks, the first posterior with five, a dot near middle of first basal cell, cloud on small and hind crossvein, that on the latter expanded in a spot along fourth vein, two dots along upper edge of second posterior cell, two near center of third posterior cell and streak beyond middle of discal cell. Length, 2 mm.

*Habitat*.—Baracoa, Cuba.

A female specimen collected in September, 1901, by Mr. August Busck. Type No. 6648, U. S. N. M.

**Odinia \* immaculata**, sp. nov.

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\* In 1830 Meigen established the genus *Milichia* for two new species, *speciosa* and *maculata*, figuring the first, with which his generic description agrees better than with the second species. In the same year Desvoidy founded the genus *Odinia* for two new species, *trinotata* and *peleterii*; the latter apparently has not been since

Head light yellow, frontal vitta dark yellow, occiput, except the margin and a notch on upper part, brown, antennæ yellow, the upper edge of the third joint tinged with brown, mouth parts light yellow; mesonotum and scutellum black, opaque, gray pruinose, pleura yellow, the sternopleura largely, and a spot above it, brown; mesonotum between the two rows of four dorsocentral bristles bare except in front of the suture, pleura bare except a few bristles along hind edge of mesopleura and one on the sternopleura; middle of metanotum and entire abdomen dark brown; femora yellow, a preapical brownish spot on the front side of each, tibiæ and tarsi brown; wings hyaline, last section of fifth vein nearly one and one half times as long as the preceding section; halteres yellow. Length, 1.5 mm.

*Habitat*.—Mt. Washington, New Hampshire.

A single specimen collected by Mrs. Annie T. Slosson. Type No. 6649, U. S. N. M.

### **Parodinia**, gen. nov.

Near *Odinia* but with only two pairs of fronto-orbital bristles, eyes transversely ellipsoidal, etc. Head subquadrate, front convex, two pairs of vertical bristles, one pair of ocellars and a small, cruciate postvertical pair, front below the ocelli as wide as long, bare except for the fronto-orbitals, antennæ porrect, half as long as the head, the third joint orbicular, over twice as long as the second, arista bare, face concave, vibrissæ present, on a level with the oral margin, proboscis short, robust, palpi clavate, auxiliary vein distinct in its basal portion, uniting with the first vein near its apex, costal vein reaches apex of fourth, not incised, third and fourth veins almost parallel, hind crossvein transverse, sixth vein obliterated before reaching the wing margin, anal and second basal cells present but small.

Type, the following species:

### **Parodinia cinerea**, sp. nov.

Head yellow, the occiput, except the lower part, black, gray pruinose, mouth parts and antennæ yellow, third joint of the latter black, cheeks one-third as wide as the eye height; body black, opaque, densely gray pruinose, five pairs of dorsocentral bristles, four supra-alar, one humeral, two posthumeral, one propleural, one near hind edge of mesopleura, two sternopleural and four scutellar bristles, legs yellow, tarsi

recognized, while *trinotata* is regarded by Schiner as being identical with the *Milichia maculata* of Meigen. This leaves *speciosa* as the type of *Milichia*, and it was so designated by Westwood in 1840 and by Rondani in 1856. In 1843 Loew wrongly selected *maculata* as the type of *Milichia*, and in this he has been followed by Schiner, Osten Sacken, and most recent writers. The synonymy of these two genera is as follows:

*Milichia* Meigen, 1830; type, *speciosa* Meigen.

Synon. *Argyritis* Latreille, 1829 (not of Huebner, 1816); no species mentioned.

*Lobioptera* Wahlberg, 1847; type, *ludens* Wahlberg.

*Odinia* Desvoidy, 1830; type, *trinotata* Desvoidy.

Synon. *Alticomerus* Rondani, 1856; type, *Odinia trinotata* Desvoidy.

brownish, middle and hind femora without bristles, all tibiae with a preapical bristle; wings hyaline, veins yellow, costa bearing several short, black, spinous bristles, small crossvein near middle of discal cell; halteres yellow. Length, 2 mm.

*Habitat*.—Los Angeles Co., California.

Three specimens collected by the author. Type No. 6650, U. S. N. M.\*

### **Pseudodinia**, gen. nov.

Near *Parodinia* but the vibrissae wanting, the front wholly polished, etc. Head somewhat hemispherical, front but slightly convex and with a broad, transverse groove below the middle, the portion below the ocelli broader than long, bristles as in the preceding genus, antennae projecting obliquely downward, less than one third as long as the head, the third joint orbicular, slightly longer than the second, arista bare, face concave, sides of oral opening bearing short hairs, eyes bare, oblique, nearly quadangular, with rounded corners; proboscis short and robust, the labella rather narrow; palpi nearly cylindrical; auxiliary vein indistinct, extending close to the first until near the apex, then separating and ending in the costa, costal vein extended to apex of fourth, not incised, hind crossvein transverse, sixth vein obliterated slightly beyond apex of anal cell, the latter and second basal complete, small; tibiae bare.

Type, the following species:

### **Pseudodinia varipes**, sp. nov.

Black, the proboscis, halteres, tarsi and apices of tibiae yellow; thorax subopaque, thinly gray pruinose, two pairs of dorsocentral bristles, the hairs between them not in rows, four supra-alar bristles, one humeral two posthumeral, one near middle of hind edge of mesopleura and one sternopleural, a few hairs in front of the latter, pleura otherwise without hairs, scutellum bearing four bristles; wings hyaline, veins yellowish, changing to brown on the apical portion, second, third and fourth veins nearly parallel, the apices of the third and fourth diverging, last section of fifth vein less than half as long as the preceding section, small crossvein near middle of discal cell. Length, 1.5 mm.

*Habitat*.—Las Vegas Hot Springs, New Mexico.

Three specimens collected August 3, 8 and 15, by Mr. H. S. Barber. Type No. 6651, U. S. N. M.

### **Milichia robertsoni**, sp. nov.

Black, including the halteres; the front angles of third abdominal segment, a fascia at base of the fourth and whole of the fifth except its apex, silvery white pruinose, wings hyaline, costal incision small. Length, 2 mm.

*Habitat*.—Inverness, Florida.

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\* *Rhincæssa costalis* Coquillett also belongs to *Parodinia*. It was described from the Galapagos Islands and Mr. Barber collected specimens at Williams, Flagstaff and Bright Angel, Arizona.

A male specimen received from Mr. Charles Robertson. Type No. 6652, U. S. N. M.

**Arctobiella**, gen. nov.

Near *Eusiphona* but the proboscis is short, robust, not geniculate, the third and fourth veins nearly parallel, etc. Head somewhat hemispherical, front flat, the portion below the ocelli over twice as long as wide, rather densely haired, bristles of head and body scarcely stouter than the hairs, face concave, vibrissæ not differentiated from the adjacent hairs; antennæ about one third as long as the head, the third joint orbicular, slightly longer than the second; arista bare; eyes densely haired; palpi clavate, auxiliary vein extending close to the first but separated from the latter before its apex and ending in the costa, hind crossvein transverse, costa not incised, costal vein reaches apex of the fourth; sixth vein obliterated far before reaching the wing-margin, anal and second basal cells present but small.

Type, the following species:

**Arctobiella obscura**, sp. nov.

Black, including the halteres; cheeks about one sixth as wide as the eye height; body opaque, somewhat velvety, mesonotum and pleura rather densely haired, scutellum bearing a marginal row of bristly hairs, abdomen greatly depressed, less than twice as long as wide; legs short and rather robust; tibiæ without bristles; wings pale brownish, small crossvein near middle of discal cell. Length, 4 mm.

*Habitat*.—Laggan, British Columbia.

A single specimen collected by Prof. H. F. Wickham. Type No. 6653, U. S. N. M.

**Desmometopa luteola**, sp. nov.

Yellow, the arista and bristles black; wings hyaline, third and fourth veins nearly parallel, last section of fifth vein less than one fourth as long as the preceding section, small crossvein near two-thirds length of discal cell. Length, nearly 2 mm.

*Habitat*.—Williams, Arizona.

A single specimen collected June 30 by Mr. H. S. Barber. Type No. 6654, U. S. N. M.

**Agromyza picta**, sp. nov.

Black, the proboscis, sides and posterior part of mesonotum, scutellum, upper half of pleura, halteres, and abdomen except the last two segments and middle of the preceding, yellow; body polished, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the bristly hairs between them not disposed in rows, a large space in front of scutellum destitute of hairs; wings hyaline, faintly tinged with smoky brown along the costa, last section of fifth vein slightly shorter than the preceding section. Length, 3 mm.

*Habitat*.—Frontera, Tabasco, Mexico.

A single specimen collected March 5 by Mr. C. H. T. Townsend. Type No. 6655, U. S. N. M.

**Agromyza parvicella**, sp. nov.

Black, the cheeks, sides of face, proboscis, halteres, and knees, yellow, lower part of front yellowish-brown; thorax opaque, gray pruinose, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them in two rows; wings grayish hyaline, veins brown, last section of fourth vein slender, last section of fifth five times as long as the preceding section, small crossvein at two-thirds of length of the unusually small discal cell. Length, 2 mm.

*Habitat*.—St. Paul Island, Alaska.

A single specimen collected by Prof. Trevor Kincaid. Type No. 6656, U. S. N. M.

**Agromyza flavonigra**, sp. nov.

Head and its members yellow, an ocellar dot, occiput except the margin, the arista and bristles black; body yellow, hairs and bristles black, mesonotum black, the sides, front angles, four vittæ and spot in front of scutellum yellow, a black humeral dot, an irregular, interrupted vitta on lower part of pleura, large spot on sternum in front of middle coxæ, spot on each side of scutellum at base, fascia at bases of abdominal segments three and four, two pairs of dots on segment five and whole of six, black; mesonotum somewhat opaque, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them not in rows; coxæ and femora yellow varied with black, tibiæ and tarsi wholly black; wings hyaline, veins brown and of nearly equal thickness, last section of fifth vein one and one-half times as long as the preceding section; halteres yellow. Length, 3 mm.

*Habitat*.—Beulah, New Mexico.

Two specimens collected June 29 and in July by Prof. and Mrs. T. D. A. Cockerell. Type No. 6657, U. S. N. M.

**Agromyza varifrons**, sp. nov.

Black, the lower half of front, antennæ, face, cheeks, mouth parts, halteres, knees and bases of tarsi, yellow; mesonotum somewhat polished, two pairs of dorsocentrals, the bristly hairs between them not in rows; wings hyaline, veins brown, of nearly an equal thickness, last two sections of fifth vein subequal in length. Length, 1.5 mm.

*Habitat*.—District of Columbia.

A single specimen collected by the writer. Type No. 6658, U. S. N. M.

**Agromyza pruinosa**, sp. nov.

Black, the halteres and knees yellow, lower half of frontal vitta, antennæ, depressions of face, lower edge of cheeks and the mouth parts, reddish-yellow; mesonotum rather densely whitish-gray pruinose, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them not in rows; wings hyaline, veins brown, of nearly an equal thickness, apical portions of third and fourth

veins strongly diverging, last two sections of fifth vein subequal in length. Length, 2.5 mm.

*Habitat*.—Colorado.

A single specimen collected by Mr. H. K. Morrison. Type No. 6659, U. S. N. M.

***Agromyza viridula*, sp. nov.**

Black, the body, especially the abdomen, greenish, halteres white, apex of proboscis yellowish-brown; mesonotum somewhat polished, two pairs of dorsocentral bristles, the hairs between them numerous, not disposed in rows; wings hyaline, veins brown, of nearly an equal thickness, last section of fifth vein two thirds as long as the preceding section, small crossvein near one-third of length of discal cell. Length, 2 to 2.5 mm.

*Habitat*.—District of Columbia (Coquillett, in June); Beverly, Massachusetts (Burgess, June 29); Georgia (Morrison); and Aguadilla and Mayaguez, Porto Rico (Busck, in January).

Five specimens. Near *neptis*, but that species has three pairs of dorsocentral bristles, small crossvein at middle of discal cell, etc. Type No. 6660, U. S. N. M.

***Hemeromyia*, gen. nov.**

Near *Agromyza* but the vibrissæ distinctly above the front edge of the oral margin, face strongly convex, etc. Head somewhat quadrangular, front convex, the portion below the ocelli broader than long, bristles as in *Parodinia* except that the postvertical pair is diverging; antennæ scarcely one-sixth as long as the head, the third joint orbicular, arista bare, face retreating at the oral margin, a row of bristles on lower portion of cheeks, eyes transversely oval, bare; proboscis short and robust; palpi clavate; costal vein reaching apex of fourth, not incised, auxiliary vein indistinct, its apical portion united with the first, the second, third and fourth veins nearly parallel, hind crossvein transverse, anal and second basal cells present but small, sixth vein obliterated before reaching the wing margin.

Type, the following species:

***Hemeromyia obscura*, sp. nov.**

Black, the face and cheeks yellow, antennæ, palpi and halteres brownish-yellow, knobs of halteres whitish; front opaque, the ocellar triangle and orbits slightly polished, cheeks one sixth as wide as the eye height; mesonotum almost without hairs, bearing four pairs of dorsocentral bristles, four supra-alar, one humeral, two posthumeral, mesopleura with one bristle and a row of hairs along the posterior edge and a bristle near middle of lower edge, a small pteropleural bristle, sternopleura bearing one bristle and a few hairs, scutellum bearing four bristles, tibiæ without bristles, wings hyaline, last section of fifth vein one-fifth as long as the preceding section, small crossvein at three-fourths length of discal cell. Length, 1.5 mm.

*Habitat*.—Las Vegas Hot Springs, New Mexico.

A single specimen collected August 11 by Mr. H. S. Barber. Type No. 6661, U. S. N. M.

**Phytomyza palliata**, sp. nov.

Yellow, an ocellar dot, occiput except lower margin, and mesonotum except the sides and hind margin, black, center of sternopleura and bases of abdominal segments, brownish; bristles black; mesonotum opaque, gray pruinose, bearing only a few hairs, four pairs of dorsocentrals; wings hyaline, fourth vein as strong as the third, hind crossvein wanting. Length, 1.5 mm.

*Habitat*.—Mesilla Park, New Mexico.

A single specimen bred from *Portulaca* August 10 by Prof. T. D. A. Cockerell. Type No. 6662, U. S. N. M.

**Phytomyza bicolor**, sp. nov.

Black, the labella, halteres and abdomen except the last segment and base of the preceding, yellow; thorax thinly grayish pruinose, four pairs of dorso-central bristles, the hairs between them numerous, not arranged in rows; wings hyaline, veins yellowish, fourth vein subhyaline, noticeably more slender and less distinct than the third, hind crossvein wanting. Length, 3 mm.

*Habitat*.—Niagara Falls, New York.

A single specimen collected June 23 by Mr. C. W. Johnson. Type No. 6663, U. S. N. M.

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## NEW FORMS OF CULICIDÆ FROM NORTH AMERICA.

BY D. W. COQUILLETT.

**Corethrella**, gen. nov.

Near *Corethra* and *Mochlonyx*, but differing from both in having the antennæ wholly covered with hairs and the apical joints shorter than the intermediate ones. Antennæ 14-jointed, the first joint unusually large, bulbous, twice as wide as long, the remaining joints slender, elongate, wholly covered with hairs, which are very dense in the male but very sparse in the female, in both with a sparse whorl of bristles near base of each joint, the second joint with an additional whorl before the middle, the hairs and bristles noticeably sparser and shorter on the last three joints than on the preceding ones, hairs on the sixth joint in the male over four times as long as that joint and but slightly shorter than the bristles, in the female the longest hairs on the sixth joint are about half as long as that joint and about one-fourth as long as the bristles, antennæ only slightly thickened at the insertion of the whorls of bristles, second joint slightly longer than the third, about four times as long as wide, joints three to eleven becoming successively a trifle longer, the last three